ECE 221 Electric Circuit Analysis

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Portland State University ECE 221 Fall 2001 Lecture 13

Lecture Overview

Last Time
- More first-order circuits
- Step response
- The “easy-way”
- Many examples

This Time
- More first-order circuit examples
- Exam 2 discussion
- Exam 2 back
- Exam solution & exam tips (for final)

CECS Scholarship Opportunity
- Funded by the National Science Foundation (NSF)
- Have 9 additional at Junior-senior level, 18 additional at freshman-sophomore for 2001–2002
- Application deadline: November 30 (awards for winter and spring terms)
- $2,500/year for juniors/seniors and $3,125/year for freshman/sophomores
- Requirements
  - Declared major in engineering or computer science
  - Low-income (must be receiving a federal Pell Grant)
  - Overall GPA of 2.5 or better
  - U.S. citizen or permanent resident
- Due Nov. 30
- Applications in the Dean’s office and at departmental offices

Exam 2 Statistics
- Possible: 50.0
- Mean: 25.2
- Median: 26.0
- Std. Dev.: 10.9
- Min: 1.0
- Max: 49.0
- No.: 91
Grade Subtotals

- Possible : 100.0
- Mean : 61.1
- Median : 63.1
- Std. Dev.: 17.4
- Min : 11.1
- Max : 98.3
- No. : 91

Exam 2 Comments

- SEAS Annex 54 had five students - 500% increase!
- Significantly worse than previous years
  - This term: 50%
  - Fall 2000: 56%
  - Winter 2000: 58%
- 40/91 (44%) scored less than 25/50 (50%) on Exam 2
- ECE majors are expected to know these concepts thoroughly later in the course sequence (e.g. 222, 321, 322, etc.)
- See me if you have questions about Exam 2 grading
<table>
<thead>
<tr>
<th>Grade Subtotals</th>
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<tbody>
<tr>
<td>• I prefer not to draw the F/D- cutoff less than 50</td>
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<tr>
<td>• 25/91 (27%) of you have a current subtotal less than 50</td>
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<td>• 11/91 (13%) of you have a current subtotal less than 40</td>
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<td>• If your subtotal is 40, a score of 75% on the final would result in a final score of 50.5</td>
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<td>• Subtotal interpretation</td>
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<td>– Less than 40, very unlikely that you will pass</td>
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<td>– 40–50, you are at high risk of not passing</td>
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<tr>
<td>– 50–60, you need to do better on the final</td>
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<tr>
<td>– &gt;60, it is very likely you will pass (C or better)</td>
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<td>• The final exam will be easier than Exam 1 and Exam 2</td>
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